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MADSON & AUSTIN 15 WEST SOUTH TEMPLE SUITE 900 SALT LAKE CITY, UT 84101			EXAMINER RILEY, MARCUS T	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/786,278	<b>Applicant(s)</b> CHRISOP ET AL.	
	<b>Examiner</b> Marcus T. Riley	<b>Art Unit</b> 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-4, 8, 9, 11-14, 18, 19, 21-23, 27 and 28 is/are pending in the application.
- 4a) Of the above claim(s) 5-7, 10, 15-17, 20, 24-26, and 29 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 8, 9, 11-14, 18, 19, 21-23, 27 and 28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 2/24/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some    \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>attached</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### **Continued Examination Under 37 CFR 1.114**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 06, 2007 has been entered.

### **Response to Amendment**

2. This office action is responsive to the applicant's remarks received on November 06, 2007. Claims 1-4, 8, 9, 11-14, 18, 19, 21-23, 27 and 28 remain pending. Claims 5-7, 10, 15-17, 20, 24-26 and 29 are withdrawn from consideration.

### **Response to Arguments**

3. Applicant's arguments with respect to amended claims 1, 8, 11, 12, 21 and 27 filed on November 06, 2007 have been fully considered but they are not persuasive.

### **A: Applicant's Remarks**

*The cited references do not teach or suggest all of the subject matter in these claims. Lopez, alone or in combination with Nomura, does not teach or suggest this subject matter. Instead Lopez*

*states that the "marked proof sheet is scanned so as to determine marked selection areas, and the image files associated with the marked selection areas are printed." (Lopez, col. 2, lines 37-39.) Lopez further states that "[t]he printing system preferably includes subsystems which obtain certain image files associated with a specified web page, print a proof sheet associated with those images, allow the user to select which of the images are to be printed, and print these user-selected image files." (Lopez, col. 3, lines 44-49.) Regarding the purpose of the invention in Lopez, Lopez states that "there is illustrated a printing system constructed in accordance with the present invention which enables digital images associated with Internet web pages to be previewed, selected, and printed without the need for a computer attached to the printer." (Id., col. 3, lines 40-44.)*

*However, Lopez does not teach or suggest all of the subject matter in claim 1, as amended because Lopez does not teach or suggest "providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receiving user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network."*

*The addition of Nomura does not overcome the deficiencies of Lopez. Instead Nomura states: Nomura, col. 6, lines 17-25. Nomura's disclosure of a scanner, an automatic document feeder, and a sheet post-treatment apparatus does not teach or suggest all of the subject matter of claim 1, as amended. Nomura does not teach or suggest all of the subject matter in claim 1, as amended because*

*Nomura does not teach or suggest "providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receiving user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network."*

*In view of the foregoing, Applicants respectfully submit that claim 1 is patentably distinct from Lopez and Nomura. Accordingly, Applicants respectfully request that the rejection of claim 1 be withdrawn because Lopez, alone or in combination with Nomura, does not teach or suggest all of the subject matter of claim 1.*

*Regarding claims 2-11, claims 2-4, 8-9 and 11 depend either directly or indirectly from claim 1. Claims 5-7 and 10 have been canceled. Accordingly, Applicants respectfully request that the rejection of claims 2-4, 8-9 and 11 be withdrawn.*

## **II. Claims 12-20 Rejected Under 35 U.S.C. § 103**

*Claims 12-20 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Lopez in view of Nomura. Applicants respectfully traverse. The standard to establish a prima facie case of obviousness is provided above. See M.P.E.P. § 2142. Claim 12 includes subject matter similar to the subject matter of claim 1. As such, Applicants submit that claim 12 is patentably distinct over Lopez in view of Nomura for at least the same reasons as those presented above in connection with claim 1 and request that the rejection of these claims be withdrawn. Regarding claims 13-20, claims 13-14 and 18-19 depend either*

*directly or indirectly from claim 12. Claims 15-17 and 20 have been canceled. Accordingly, Applicants respectfully request that the rejection of claims 13-14 and 18-19 be withdrawn.*

**III. Claims 21-29 Rejected Under 35 U.S.C. § 103**

*Claims 21-29 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Lopez in view of Nomura. Applicants respectfully traverse. The standard to establish a prima facie case of obviousness is provided above. See M.P.E.P. § 2142. Claim 21 includes subject matter similar to the subject matter of claim 1. As such, Applicants submit that claim 21 is patentably distinct over Lopez in view of Nomura for at least the same reasons as those presented above in connection with claim 1 and request that the rejection of these claims be withdrawn.*

*Regarding claims 22-29, claims 22-23 and 27-28 depend either directly or indirectly from claim 21. Claims 24-26 and 29 have been canceled. Accordingly, Applicants respectfully request that the rejection of claims 22-23 and 27-28 be withdrawn.*

**Examiner's Answer:**

The cited references do teach or suggest all of the subject matter in these claims. Lopez, alone or in combination with Nomura, does teach or suggest this subject matter. However, Lopez does teach or suggest all of the subject matter in claim 1, as amended because Lopez 318 disclose a method for proofing a scan job, the method comprising: printing a proof sheet by the scanner ("The marked proof sheet is scanned so as to determine marked selection areas, and the image files associated with the marked selection areas are printed." column 2, lines 37-39); said proof sheet containing a selected sub-set of the information contained within the scan job so that a user can inspect said proof sheet ("The printing system preferably includes subsystems which

*obtain certain image files associated with a specified web page, print a proof sheet associated with those images, allow the user to select which of the images are to be printed, and print these user-selected image files..." column 3, lines 44-49). See also ("...there is illustrated a printing system constructed in accordance with the present invention which enables digital images associated with Internet web pages to be previewed, selected, and printed without the need for a computer attached to the printer..." column 3, lines 40-44).*

Furthermore, Nomura '724 discloses scanning a plurality of pages using a scanner adapted for printing to produce a scan job (*"The image forming system 1 is provided with a printer 2..., a scanner 3, an automatic document feeder 4... The scanner 3, as well as the automatic document feeder 4 placed on a top of the scanner 3, is supported by system racks 7, so as to have a location above the printer 2..." column 6, lines 17-25*). See also Figure 2 and (*"The scanner 3 has an auto reading mode and manual reading mode. In the auto reading mode, sheet-shaped documents are automatically fed by the automatic document feeder 4, and scanned sheet-by-sheet to be exposed, so as to read document images."* column 8, lines 26-30); providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key (scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition,*

*which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status.*" column 9, lines 33-52); receiving user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key (scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status.*" column 9, lines 33-52); and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network (*"The display section 301 of*



*the operation panel 300 has a default picture plane (standby picture plane), which is a photocopying mode picture plane as shown in FIG. 5. If the image sending key 302f is, for example, pushed in order to switch over the process mode, the process mode is switched over from the photocopying mode to the image sending mode. In response to this, the display section 301 displays a picture plane shown in FIG. 6. Here, the scanning mode is a process mode in which the document read by the scanner 3 is transmitted to a receiver. Examples of the scanning mode include fax communication, SCAN TO E-mail, SCAN TO FTP (FTP: File Transfer Protocol) and the like."* column 9, lines 53-64).

Thus, the addition of Nomura does overcome the deficiencies of Lopez. In view of the foregoing, Examiner respectfully submits that claim 1 is not patentably distinct from Lopez and Nomura. Accordingly, Applicant's arguments with respect to independent claims 1, 8, 11, 18, 21 and 27, and claims 2-4, 8, 9, 11, 13,14, 18, 19, 22, 23, 27 and 28 dependent therefrom, filed on November 06, 2007 have been fully considered but they are not persuasive.

**Claim Rejections - 35 USC § 103**

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1-4, 8, 9, 11-14, 18, 19, 21-23, 27 and 28** are rejected under 35 U.S.C. 103(a) as being unpatentable over by Lopez et al. (US 7,142,318 B2 hereinafter, Lopez '318) in combination with Nomura et al. (US 7,173,724 B2, hereinafter, Nomura '724).

**Regarding claim 1;** Lopez 318 disclose a method for proofing a scan job, the method comprising: printing a proof sheet by the scanner (*"The marked proof sheet is scanned so as to determine marked selection areas, and the image files associated with the marked selection areas are printed."* column 2, lines 37-39); said proof sheet containing a selected sub-set of the information contained within the scan job so that a user can inspect said proof sheet (*"The printing system preferably includes subsystems which obtain certain image files associated with a specified web page, print a proof sheet associated with those images, allow the user to select which of the images are to be printed, and print these user-selected image files..."* column 3, lines 44-49). See also (*"...there is illustrated a printing system constructed in accordance with the present invention which enables digital images associated with Internet web pages to be previewed, selected, and printed without the need for a computer attached to the printer..."* column 3, lines 40-44).

Lopez 318 does not expressly disclose scanning a plurality of pages using a scanner adapted for printing to produce a scan job; providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receiving user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; and sending the scan job to a remote computer or computer peripheral on a network if the user input

was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network.

Nomura '724 discloses scanning a plurality of pages using a scanner adapted for printing to produce a scan job (*"The image forming system 1 is provided with a printer 2..., a scanner 3, an automatic document feeder 4... The scanner 3, as well as the automatic document feeder 4 placed on a top of the scanner 3, is supported by system racks 7, so as to have a location above the printer 2..."* column 6, lines 17-25). See also Figure 2 and (*"The scanner 3 has an auto reading mode and manual reading mode. In the auto reading mode, sheet-shaped documents are automatically fed by the automatic document feeder 4, and scanned sheet-by-sheet to be exposed, so as to read document images."* column 8, lines 26-30); providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key ( scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job*

*proceeding status.*" column 9, lines 33-52); receiving user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key ( scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status.*" column 9, lines 33-52); and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network (*"The display section 301 of the operation panel 300 has a default picture plane (standby picture plane), which is a photocopying mode picture plane as shown in FIG. 5. If the image sending key 302f is, for example, pushed in order to switch over the process mode, the process mode is switched over from the photocopying mode to the image sending mode. In response to this, the display section 301 displays a picture plane*

*shown in FIG. 6. Here, the scanning mode is a process mode in which the document read by the scanner 3 is transmitted to a receiver. Examples of the scanning mode include fax communication, SCAN TO E-mail, SCAN TO FTP (FTP: File Transfer Protocol) and the like."* column 9, lines 53-64).

Lopez '318 and Nomura '724 are combinable because they are from same field of endeavor of image forming systems (*"The present invention relates to an image forming system provided, in combination, with (a) a scanner for optically reading a document image and (b) a printer for forming an image on a recording medium..."* Nomura '724 at column 1, lines 7-10).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the image forming system as taught by Lopez '318 to scan a plurality of pages using a scanner adapted for printing to produce a scan job; providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receiving user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network as taught by Nomura '724.

The motivation for doing so would have been because it would provide a more user-friendly image forming system (*"...the scanner is so sufficiently used that the system is more*

*easily operated, thereby providing a more user-friendly image forming system.*" Nomura '724 at column 3, lines 57-60).

Therefore, it would have been obvious to combine Lopez '318 with Nomura '724 to obtain the invention as specified in claim 1.

**Regarding claim 2;** Lopez '318 discloses rendering the entire scan job after sending (*"The image printing subsystem 84 renders each image file 2 according to the printing instructions, and sends the print content to the printer subsystem 80 for generating the image prints 26."* column 5, lines 31-35);

**Regarding claim 3;** Lopez '318 discloses the proof sheet includes one or more thumbnail images representing one or more respective pages of the scan job (*"...FIG. 3A is a detailed plan view of an exemplary combination proof sheet and order form 22 that may be utilized with the system 10 of FIG. 1A to select one or more images from an array of thumbnail images such as 52 (FIG. 3C) for final printing."* column 5, lines 63-67);

**Regarding claim 4;** Lopez '318 discloses the proof sheet includes descriptive information describing the scan job (*"The scanned image is communicated from the scanner subsystem 86 to a proof sheet analyzer subsystem 82. The proof sheet analyzer subsystem 82 detects and interprets the markings made by the user in the user designation areas 54 (also known as image selection areas 54) to identify the user-selected image files 2, and associates each of the individual user designation areas 54 with a corresponding image file URL 73 via the identity marker 60."* column 5, lines 13-23).

**Regarding claim 8;** Lopez '318 and Nomura '724 as modified does not expressly disclose where the user input comprises input to edit settings for the scan job; where the method further comprising the step of storing the scan job in a memory; and receiving user instruction and modifying the stored scan job according to said user instruction prior to said step of sending.

Nomura '724 discloses where the user input comprises input to edit settings for the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key ( scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status."* column 9, lines 33-52); the method further comprising the step of storing the scan job in a memory (*"The display section 301 of the scanner 3 is linked with a printer controller (control means) 223 of the printer 2 via a busline and the like. In other words, in the image forming system 1, each of detailed information of the scanner 3, the printer 2, and the whole system, which is displayed on the display section 301 of the scanner 3, is wholly controlled by the printer controller 223. Therefore, in the image forming system 1, both display contents of the printer 2*

*and the scanner 3 are stored in a VRAM (Video Random Access Memory) (display information storing means) 223a of the printer controller 223. A memory is saved, because the respective detailed information of the printer 2 and the scanner 3 is administered in a unitary manner by the printer controller 223 of the printer 2 in this manner. However, in this case, the VRAM 223a inside the printer 2 also stores, in advance, information regarding content of the display on the large-sized LCD of the scanner 3, providing for the case the printer 2 is combined with the scanner 3 (forming a system). In other words, the VRAM 223a stores both display data to be displayed on the display section (small-sized LCD) 221 of the printer 2, and picture data and character data to be displayed on the display section 301 of the scanner 3.” column 10, lines 37-63); receiving user instruction and modifying the stored scan job according to said user instruction prior to said step of sending (“...the image forming system 1 can uses the display section 301, which is a large-sized LCD, of the scanner 3 to display the detailed information of the printer 2. Conventionally, for example, the detailed information of the printer 2, such as instructions how to solve jamming, instructions how to exchange an exchangeable unit, and the like, is displayed on a small-sized LCD of the printer 2, whose display is limited to a small number of characters, thereby causing such a problem that the detailed information is hard to understand for a user.” column 11, lines 19-27).*

Lopez ‘318 and Nomura ‘724 are combinable with Nomura ‘724 because they are from same field of endeavor of image forming systems (“*The present invention relates to an image forming system provided, in combination, with (a) a scanner for optically reading a document image and (b) a printer for forming an image on a recording medium...*” Nomura ‘724 at column 1, lines 7-10).



At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the image forming systems as taught by Lopez '318 and Nomura '724 to where the user input comprises input to edit settings for the scan job; where the method further comprising the step of storing the scan job in a memory; and receiving user instruction and modifying the stored scan job according to said user instruction prior to said step of sending as taught by Nomura '724.

The motivation for doing so would have been because it would provide a more user-friendly image forming system ("*...the scanner is so sufficiently used that the system is more easily operated, thereby providing a more user-friendly image forming system.*" Nomura '724 at column 3, lines 57-60).

Therefore, it would have been obvious to combine Lopez '318 and Nomura '724 with Nomura '724 to obtain the invention as specified in claim 1.

**Regarding claim 9;** Lopez '318 discloses the proof sheet includes one or more thumbnail images representing one or more respective pages of the scan job ("*...FIG. 3A is a detailed plan view of an exemplary combination proof sheet and order form 22 that may be utilized with the system 10 of FIG. 1A to select one or more images from an array of thumbnail images such as 52 (FIG. 3C) for final printing.*" column 5, lines 63-67);

**Regarding claim 11;** Lopez '318 discloses rendering the entire scan job after said step of sending ("*The image printing subsystem 84 renders each image file 2 according to the printing instructions, and sends the print content to the printer subsystem 80 for generating the image prints 26.*" column 5, lines 31-35).

**Regarding claim 12;** Lopez '318 discloses an apparatus for proofing a scan job, comprising: printing a proof sheet (*"The marked proof sheet is scanned so as to determine marked selection areas, and the image files associated with the marked selection areas are printed."* column 2, lines 37-39); said proof sheet containing a selected sub-set of the information contained within the scan job so that a user can inspect said proof sheet See also (*"The printing system preferably includes subsystems which obtain certain image files associated with a specified web page, print a proof sheet associated with those images, allow the user to select which of the images are to be printed, and print these user-selected image files..."* column 3, lines 44-49). See also (*"...there is illustrated a printing system constructed in accordance with the present invention which enables digital images associated with Internet web pages to be previewed, selected, and printed without the need for a computer attached to the printer..."* column 3, lines 40-44).

Lopez 318 does not expressly disclose a scanner adapted for printing; a processing unit adapted to: scan a plurality of pages using the scanner to produce a scan job; providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receive user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network.

Nomura '724 discloses a scanner adapted for printing (*"The image forming system 1 is provided with a printer 2..., a scanner 3, an automatic document feeder 4... The scanner 3, as well as the automatic document feeder 4 placed on a top of the scanner 3, is supported by system racks 7, so as to have a location above the printer 2..."* column 6, lines 17-25). See also Figure 2 and (*"The scanner 3 has an auto reading mode and manual reading mode. In the auto reading mode, sheet-shaped documents are automatically fed by the automatic document feeder 4, and scanned sheet-by-sheet to be exposed, so as to read document images."* column 8, lines 26-30); a processing unit adapted to: scan a plurality of pages using the scanner to produce a scan job (*"The image forming system 1 is provided with a printer 2..., a scanner 3, an automatic document feeder 4... The scanner 3, as well as the automatic document feeder 4 placed on a top of the scanner 3, is supported by system racks 7, so as to have a location above the printer 2..."* column 6, lines 17-25). See also Figure 2 and (*"The scanner 3 has an auto reading mode and manual reading mode. In the auto reading mode, sheet-shaped documents are automatically fed by the automatic document feeder 4, and scanned sheet-by-sheet to be exposed, so as to read document images."* column 8, lines 26-30); providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key ( scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming*

*system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status."*

column 9, lines 33-52); receive user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job ("The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key ( scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1.

*The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status."*

column 9, lines 33-52); and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral

on the network (*"The display section 301 of the operation panel 300 has a default picture plane (standby picture plane), which is a photocopying mode picture plane as shown in FIG. 5. If the image sending key 302f is, for example, pushed in order to switch over the process mode, the process mode is switched over from the photocopying mode to the image sending mode. In response to this, the display section 301 displays a picture plane shown in FIG. 6. Here, the scanning mode is a process mode in which the document read by the scanner 3 is transmitted to a receiver. Examples of the scanning mode include fax communication, SCAN TO E-mail, SCAN TO FTP (FTP: File Transfer Protocol) and the like."* column 9, lines 53-64).

Lopez '318 and Nomura '724 are combinable because they are from same field of endeavor of image forming systems (*"The present invention relates to an image forming system provided, in combination, with (a) a scanner for optically reading a document image and (b) a printer for forming an image on a recording medium..."* Nomura '724 at column 1, lines 7-10).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the image forming system as taught by Lopez '318 to add a scanner adapted for printing; a processing unit adapted to: scan a plurality of pages using the scanner to produce a scan job; providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receive user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; and sending the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan

job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network as taught by Nomura '724.

The motivation for doing so would have been because it would provide a more user-friendly image forming system (*"...the scanner is so sufficiently used that the system is more easily operated, thereby providing a more user-friendly image forming system."* Nomura '724 at column 3, lines 57-60).

Therefore, it would have been obvious to combine Lopez '318 with Nomura '724 to obtain the invention as specified in claim 12.

**Regarding claim 13;** Lopez '318 discloses the proof sheet includes one or more thumbnail images representing one or more respective pages of the scan job (*"...FIG. 3A is a detailed plan view of an exemplary combination proof sheet and order form 22 that may be utilized with the system 10 of FIG. 1A to select one or more images from an array of thumbnail images such as 52 (FIG. 3C) for final printing."* column 5, lines 63-67);

**Regarding claim 14;** Lopez '318 discloses the proof sheet includes descriptive information describing the scan job (*"The scanned image is communicated from the scanner subsystem 86 to a proof sheet analyzer subsystem 82. The proof sheet analyzer subsystem 82 detects and interprets the markings made by the user in the user designation areas 54 (also known as image selection areas 54) to identify the user-selected image files 2, and associates each of the individual user designation areas 54 with a corresponding image file URL 73 via the identity marker 60."* column 5, lines 13-23);

**Regarding claim 18;** Lopez '318 and Nomura '724 as modified does not expressly disclose an apparatus further comprising a memory, wherein, where the user input comprises input to edit settings for the scan job; the processing unit is adapted to store the scan job in said memory; receive user instruction, and modify the stored scan job according to said user instruction prior to sending the scan job.

Nomura '724 discloses an apparatus further comprising a memory, wherein, where the user input comprises input to edit settings for the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key (scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status."* column 9, lines 33-52); the processing unit is adapted to store the scan job in said memory (*"The display section 301 of the scanner 3 is linked with a printer controller (control means) 223 of the printer 2 via a busline and the like. In other words, in the image forming system 1, each of detailed information of the scanner 3, the printer 2, and the whole system, which is displayed on the display section 301 of the scanner 3, is wholly*

*controlled by the printer controller 223. Therefore, in the image forming system 1, both display contents of the printer 2 and the scanner 3 are stored in a VRAM (Video Random Access Memory) (display information storing means) 223a of the printer controller 223. A memory is saved, because the respective detailed information of the printer 2 and the scanner 3 is administered in a unitary manner by the printer controller 223 of the printer 2 in this manner. However, in this case, the VRAM 223a inside the printer 2 also stores, in advance, information regarding content of the display on the large-sized LCD of the scanner 3, providing for the case the printer 2 is combined with the scanner 3 (forming a system). In other words, the VRAM 223a stores both display data to be displayed on the display section (small-sized LCD) 221 of the printer 2, and picture data and character data to be displayed on the display section 301 of the scanner 3.” column 10, lines 37-63); receive user instruction, and modify the stored scan job according to said user instruction prior to sending the scan job (“...the image forming system 1 can uses the display section 301, which is a large-sized LCD, of the scanner 3 to display the detailed information of the printer 2. Conventionally, for example, the detailed information of the printer 2, such as instructions how to solve jamming, instructions how to exchange an exchangeable unit, and the like, is displayed on a small-sized LCD of the printer 2, whose display is limited to a small number of characters, thereby causing such a problem that the detailed information is hard to understand for a user.” column 11, lines 19-27).*

Lopez ‘318 and Nomura ‘724 are combinable with Nomura ‘724 because they are from same field of endeavor of image forming systems (“The present invention relates to an image forming system provided, in combination, with (a) a scanner for optically reading a document



*image and (b) a printer for forming an image on a recording medium...*" Nomura '724 at column 1, lines 7-10).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the image forming systems as taught by Lopez '318 and Nomura '724 by adding an apparatus further comprising a memory, wherein, where the user input comprises input to edit settings for the scan job; the processing unit is adapted to store the scan job in said memory; receive user instruction, and modify the stored scan job according to said user instruction prior to sending the scan job as taught by Nomura '724.

The motivation for doing so would have been because it would provide a more user-friendly image forming system ("*...the scanner is so sufficiently used that the system is more easily operated, thereby providing a more user-friendly image forming system.*" Nomura '724 at column 3, lines 57-60).

Therefore, it would have been obvious to combine Lopez '318 and Nomura '724 with Nomura '724 to obtain the invention as specified in claim 12.

**Regarding claim 19;** Lopez '318 discloses a proof sheet including one or more thumbnail images representing one or more respective pages of the scan job ("*...FIG. 3A is a detailed plan view of an exemplary combination proof sheet and order form 22 that may be utilized with the system 10 of FIG. 1A to select one or more images from an array of thumbnail images such as 52 (FIG. 3C) for final printing.*" column 5, lines 63-67);

**Regarding claim 21;** Lopez '318 discloses a computer-readable medium configured to store a set of instructions executable to: scan a plurality of pages using a scanner adapted for

printing to produce a scan job (*"The image forming system 1 is provided with a printer 2..., a scanner 3, an automatic document feeder 4... The scanner 3, as well as the automatic document feeder 4 placed on a top of the scanner 3, is supported by system racks 7, so as to have a location above the printer 2..."* column 6, lines 17-25). See also Figure 2 and (*"The scanner 3 has an auto reading mode and manual reading mode. In the auto reading mode, sheet-shaped documents are automatically fed by the automatic document feeder 4, and scanned sheet-by-sheet to be exposed, so as to read document images."* column 8, lines 26-30); print a proof sheet by the scanner, said proof sheet containing a selected sub-set of the information contained within the scan job so that a user can inspect said proof sheet (*"The marked proof sheet is scanned so as to determine marked selection areas, and the image files associated with the marked selection areas are printed."* column 2, lines 37-39). See also (*"The printing system preferably includes subsystems which obtain certain image files associated with a specified web page, print a proof sheet associated with those images, allow the user to select which of the images are to be printed, and print these user-selected image files..."* column 3, lines 44-49).

Lopez '318 does not expressly disclose providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receive user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; send the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network.

Nomura '724 discloses providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receive user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key (scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status."* column 9, lines 33-52); and send the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network (*"The display section 301 of the operation panel 300 has a default picture plane (standby picture plane), which is a photocopying mode picture plane as shown in FIG. 5. If the image sending key 302f is, for example, pushed in order to switch over the process mode, the process mode is switched over*

*from the photocopying mode to the image sending mode. In response to this, the display section 301 displays a picture plane shown in FIG. 6. Here, the scanning mode is a process mode in which the document read by the scanner 3 is transmitted to a receiver. Examples of the scanning mode include fax communication, SCAN TO E-mail, SCAN TO FTP (FTP: File Transfer Protocol) and the like.” column 9, lines 53-64).*

Lopez ‘318 and Nomura ‘724 are combinable because they are from same field of endeavor of image forming systems (*“The present invention relates to an image forming system provided, in combination, with (a) a scanner for optically reading a document image and (b) a printer for forming an image on a recording medium...”* Nomura ‘724 at column 1, lines 7-10).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the image forming system as taught by Lopez ‘318 to add a providing a user interface at the scanner for a user to approve the scan job, or rescan the plurality of pages, or edit settings for the scan job, or cancel the scan job; receive user input through the user interface at the scanner, wherein the user input comprises one of the following: (a) input to approve the scan job, (b) input to rescan the plurality of pages, (c) input to edit settings for the scan job, or (d) input to cancel the scan job; send the scan job to a remote computer or computer peripheral on a network if the user input was the input to approve the scan job, whereby enabling the user to proof the scan job before sending the scan job to the remote computer or the computer peripheral on the network as taught by Nomura ‘724.

The motivation for doing so would have been because it would provide a more user-friendly image forming system (*“...the scanner is so sufficiently used that the system is more*

*easily operated, thereby providing a more user-friendly image forming system.*" Nomura '724 at column 3, lines 57-60).

Therefore, it would have been obvious to combine Lopez '318 with Nomura '724 to obtain the invention as specified in claim 21.

**Regarding claim 22;** Lopez '318 discloses a proof sheet including one or more thumbnail images representing one or more respective pages of the scan job ("*...FIG. 3A is a detailed plan view of an exemplary combination proof sheet and order form 22 that may be utilized with the system 10 of FIG. 1A to select one or more images from an array of thumbnail images such as 52 (FIG. 3C) for final printing.*" column 5, lines 63-67).

**Regarding claim 23;** Lopez '318 discloses a proof sheet including descriptive information describing the scan job ("*The scanned image is communicated from the scanner subsystem 86 to a proof sheet analyzer subsystem 82. The proof sheet analyzer subsystem 82 detects and interprets the markings made by the user in the user designation areas 54 (also known as image selection areas 54) to identify the user-selected image files 2, and associates each of the individual user designation areas 54 with a corresponding image file URL 73 via the identity marker 60.*" column 5, lines 13-23).

**Regarding claim 27;** Lopez '318 and Nomura '724 as modified does not expressly disclose where the user input comprises input to edit settings for the scan job; the instructions are further executable to store the scan job in a memory; receive user instruction, and modify the stored scan job according to said user instruction prior to said step of sending.

Nomura '724 discloses where the user input comprises input to edit settings for the scan job (*"The various keys of the operation section 302 are namely: a start key 302a, an all clear key 302b, a clear key 302c, ten keys 302d, and a mode switching key group composing of a printing mode key 302e, an image sending key (scanning mode key) 302f, and a photocopying mode key 302g, and a job status key 302h. The start key 302a is a key for giving instructions to start a process of a mode set by using the various keys. The all clear key 302b clears whole setting of the image forming system 1, so as to restore a standard condition of the image forming system 1. The clear key 302c clears condition, which is inputted by the ten keys 302d and the like. The ten keys 302d are keys for inputting numerical information such as a number of sheets to be photocopied. The keys (302e, 302f, and 302g) in the mode switching key group are for switching over the modes for the process (process modes). Moreover, the job status key 302h is a display key (key for a standby job display) of a picture plane regarding a job proceeding status."* column 9, lines 33-52); the instructions are further executable to store the scan job in a memory (*"The display section 301 of the scanner 3 is linked with a printer controller (control means) 223 of the printer 2 via a busline and the like. In other words, in the image forming system 1, each of detailed information of the scanner 3, the printer 2, and the whole system, which is displayed on the display section 301 of the scanner 3, is wholly controlled by the printer controller 223. Therefore, in the image forming system 1, both display contents of the printer 2 and the scanner 3 are stored in a VRAM (Video Random Access Memory) (display information storing means) 223a of the printer controller 223. A memory is saved, because the respective detailed information of the printer 2 and the scanner 3 is administered in a unitary manner by the printer controller 223 of the printer 2 in this manner. However, in this case, the VRAM 223a inside the*

*printer 2 also stores, in advance, information regarding content of the display on the large-sized LCD of the scanner 3, providing for the case the printer 2 is combined with the scanner 3 (forming a system). In other words, the VRAM 223a stores both display data to be displayed on the display section (small-sized LCD) 221 of the printer 2, and picture data and character data to be displayed on the display section 301 of the scanner 3.*" column 10, lines 37-63); receive user instruction, and modify the stored scan job according to said user instruction prior to said step of sending (*"...the image forming system 1 can uses the display section 301, which is a large-sized LCD, of the scanner 3 to display the detailed information of the printer 2. Conventionally, for example, the detailed information of the printer 2, such as instructions how to solve jamming, instructions how to exchange an exchangeable unit, and the like, is displayed on a small-sized LCD of the printer 2, whose display is limited to a small number of characters, thereby causing such a problem that the detailed information is hard to understand for a user."* column 11, lines 19-27).

Lopez '318 and Nomura '724 are combinable with Nomura '724 because they are from same field of endeavor of image forming systems (*"The present invention relates to an image forming system provided, in combination, with (a) a scanner for optically reading a document image and (b) a printer for forming an image on a recording medium..."* Nomura '724 at column 1, lines 7-10).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the image forming systems as taught by Lopez '318 and Nomura '724 to add where the user input comprises an input to edit settings for the scan job; the instructions are further executable to store the scan job in a memory; receive user instruction, and modify the

stored scan job according to said user instruction prior to said step of sending as taught by Nomura '724.

The motivation for doing so would have been because it would provide a more user-friendly image forming system ("*...the scanner is so sufficiently used that the system is more easily operated, thereby providing a more user-friendly image forming system.*" Nomura '724 at column 3, lines 57-60).

Therefore, it would have been obvious to combine Lopez '318 and Nomura '724 with Nomura '724 to obtain the invention as specified in claim 21.

**Regarding claim 28;** Lopez '318 disclose a proof sheet that includes one or more thumbnail images representing one or more respective pages of the scan job ("*...FIG. 3A is a detailed plan view of an exemplary combination proof sheet and order form 22 that may be utilized with the system 10 of FIG. 1A to select one or more images from an array of thumbnail images such as 52 (FIG. 3C) for final printing.*" column 5, lines 63-67).

#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus T. Riley whose telephone number is 571-270-1581. The examiner can normally be reached on Monday - Friday, 7:30-5:00, est.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler L. Haskins can be reached on 571-272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.




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